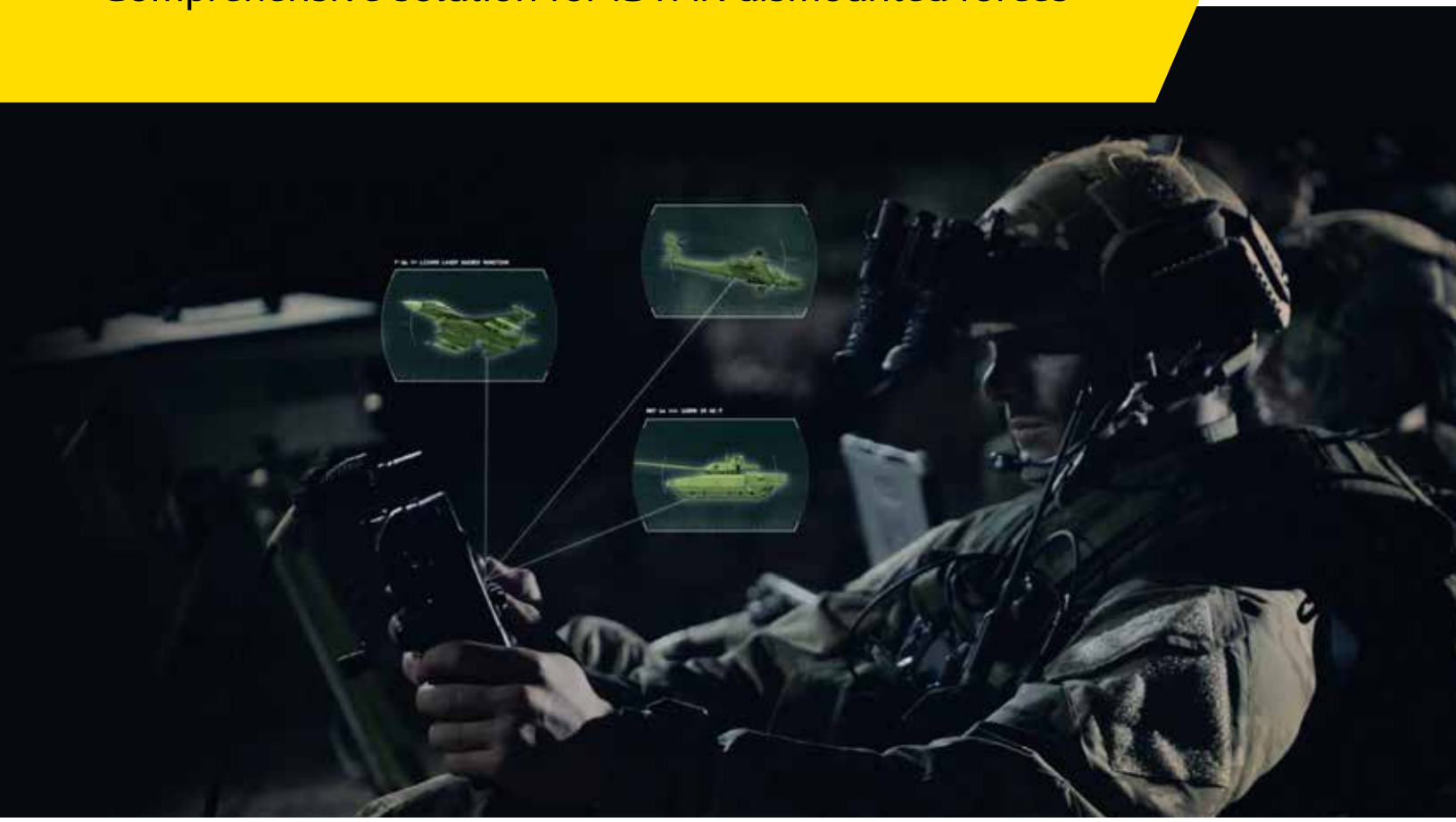
HattoriX

Comprehensive solution for ISTAR dismounted forces



Elbit Systems™

Security & Tactical EO Solutions – ELSEC

HattoriX is a next-generation fire support and intelligence solution for dismounted forces, designed to shorten the sensor-to-shooter cycle while engaging fire effectively and accurately.

The **HattoriX** solution offers the dismounted team an independent intelligence collection-and-analysis capability for immediate and accurate target engagement, while minimizing collateral damage.

By integrating several technologies into one comprehensive solution, **HattoriX** exploits Elbit Systems' ISTAR assets more efficiently than ever before, enabling precise and rapid execution of complex ISTAR missions.

HattoriX is designed for dismounted operational users, including Forward Observers (FO), Forward Air Controllers (FAC), Joint Terminal Attack Controllers (JTAC), reconnaissance, field intelligence and Special Forces.

Manual Goniometer

Positional Accuracy	0.3mil in both axis with respect to North reference
Payload Capacity	Mini HattoriX - up to 5kg HattoriX - up to 20kg
Internal Sensors	GPS, digital compass and digital leveling

Mission Computer

Map Display	2D and 3D digital map
Target Data Bank	Including Geo location, target image and video
Target Acquisition Capabilities	Active (using LRF) Passive (without LRF) – dependent on GIS database Accurate (TLE CAT-1 using photogrammetry algorithm)

Power and Communications Distribution Unit (PCDU)

Power	Battery power External power
Communications	Ethernet switch USB Hub

The HattoriX solution has four different configurations to enable operational flexibility:

- **MINI HattoriX** – lightweight, manually operated configuration for medium-range dismounted ISTAR missions
- **MINI HattoriX RC** – lightweight, remotely-controlled configuration for medium-range dismounted ISTAR missions
- **HattoriX** – manually operated configuration for long-range dismounted ISTAR missions
- **HattoriX RC** – remotely-controlled configuration for long-range dismounted ISTAR missions

Remote Controlled Goniometer

Positional Accuracy	0.3mil in both axis with respect to North reference
Payload Capacity	Mini HattoriX RC - up to 5kg HattoriX RC - up to 20kg
Internal Sensors	GPS, digital compass and digital leveling
Azimuth Velocity	Min 0.2mil/sec; Max 350mil/sec
Elevation Velocity	Min 0.2mil/sec; Max 180mil/sec

Lightweight Tripod

Construction	Carbon fiber combined with aluminum
Leveling	Built-in ultra-fine leveling mechanism
Working Height	20-120cm
Payload Capacity	Mini HattoriX/RC - 10kg HattoriX/RC - 30kg

Display Unit

Software	Video display with graphical overlay Video recording

Camouflage

3D Multispectral TVC Material

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The HattoriX solution provides crucial operational benefits:

- **Improved SWaP** – A dismounted solution designed to support prolonged missions with optimal size, weight and power.
- **Modular configuration** – Tailor made for the customer's specific requirements, while enabling the integration of various electro-optics, LRF, designators, C^4I, radio, radar and more.
- **Accurate target acquisition** – Target Location Error (TLE) CAT-1 is provided via extraction of high-accuracy 3D coordinates using a photogrammetry algorithm.
- **Connectivity and interoperability** – HattoriX's unified system communications and power pack enables several systems to operate in conjunction with each other - increasing operational effectiveness.
- **Improved Situational Awareness** – Integrated video with GIS database processing provides enhanced battlefield management by matching mission planning elements with video input.
- **Highly efficient fire engagement** – Users have the flexibility of choosing the most optimal engagement platform available.

Elbit Security Systems Ltd. (ELSEC) – an Elbit Systems Ltd. subsidiary and part of Elbit Systems' ISTAR division, capitalizes on its close cooperation with defense forces around the world. With extensive technological and operational experience, ELSEC translates operational needs into technologies and products, bringing them together to provide complete and comprehensive solutions.

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